

Smartphone STEM



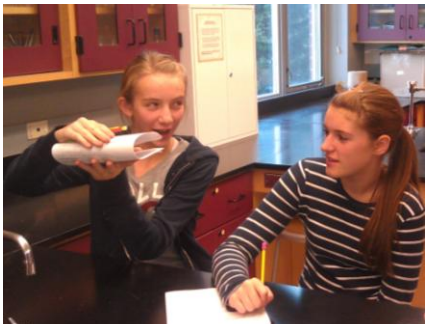
Raytheon Engineer Mac Andrews visited the 8th grade physical science classes on November 20, 2012. He spoke about the work that he does as an Electrical Engineer for Raytheon and gave a brief presentation on the engineering design process. Mr. Andrews pointed out to the students that everyone uses a version of the engineering design process when making decisions or creating something. It really can be applied to almost anything!

Mr. Andrews also introduced "Project Oops! I Dropped Something!" The project consisted of four stations, each one focusing on science, technology, engineering or math. The stations were tied together by a central theme of figuring out how to protect a smartphone screen from breaking. Students worked in teams to answer questions, collect and graph data, solve math problems, and design solutions. Mr. Andrews cycled through the stations as students worked, speaking to students about the importance of the brainstorming process, helping students to use measurement instruments accurately, and sharing insights about engineering and life.



Mr. Andrews shared some tips with Madeline and Thomas

Mr. Andrews has volunteered often in the Douglas public schools-judging science fairs, presenting for after school clubs, and interacting with students in the classroom. Douglas is very fortunate to have our own "resident engineer"! Thank you, Mr. Andrews!



Megan demonstrated an idea to Mykayla



Audrey and Katie looked on as Mr. Andrews demonstrated his "OG" phone-it appeared to defy gravity, thanks to magnetic levitation!



Matt and Brent did some research on the iPad